

ACTIVITIES OF ACADEMIA – INDUSTRY INTERACTION CELL (AIIC)

Programme Coordinator : Mr. K. N. Venkatesh, Sr. Project Engineer

18.3 STUDENT PROJECT PROGRAMME (SPP): 42nd series

KSCST invited project proposals from the final year engineering students for the 42nd series (2018-19) of Student Project Programme (SPP) for the sponsorship.

42nd Series of SPP started in November 2018. KSCST circulated SPP posters containing the details of Student Project Programme to all engineering colleges and universities across the state in the month of December 2018.

The Council received 3604 project proposals from various disciplines from more than 160 engineering colleges across the State. The Council collected a processing fee of Rs. 1000 for each project proposal. Under the 42nd Series of SPP, project proposals were invited in three different category / streams, namely Stream A, Stream B and Stream C.

1. Stream A will be further improvement of previous year awarded projects. The potential projects selected under Stream A will be taken up for commercialization with the assistance of industries.
2. For Stream B, experts committee has identified specific societal problems and the proposal has to be submitted with respect to the specified problem statement.

3. Stream C is a broad theme category which includes all branches of Engineering.

With the broad themes, the Council received 3,605 project proposals from various disciplines from over 160 engineering colleges in the State. Evaluation of project proposals started during February 2019 at KSCST. The project proposals were evaluated by the experts from IISc, KSCST, NAL, CMTI and other R&D Industries and was completed in the month of March 2019. After the approval of projects from the subject experts, KSCST selected 700 projects from various disciplines of engineering with a financial support of Rs. 47,66,500/-. The list of the selected projects was announced in the Councils website in the month of March 2019.

Karnataka State Council for Science and Technology
Indian Institute of Science Campus, Bengaluru - 560 012
Telephone : 083 - 2334 1682, 2334 3849, 2334 8840
Email: spp@kscst.iisc.ernet.in Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

STUDENTS PROJECT PROGRAMME
(SPP - 42nd SERIES : 2018 - 2019)

PROJECT PROPOSALS ARE INVITED FROM FINAL YEAR ENGINEERING STUDENTS

KSCST invites project proposals from the final year engineering students for sponsorship, under the 42nd series of Student Project Programme under three categories.

Stream A: The submitted projects shall be selected from the list of "projects selected under 41st Series of Student Project Programme for further development / development of prototype" and the deliverables shall clearly indicate the improvement / additional development made to the project. KSCST has prepared such "projects list" for reference.

Stream B: KSCST has identified certain projects for the student's project proposal for an Innovative Project Contest. Please refer to the problem statement, objectives, expected outcome of the project, published in the KSCST - SPP website.

Stream C: KSCST invites projects under any branch of the Engineering / Technology covering the broad themes / categories published in the website.

The proposals needs to be of relevance to the Society / Industries / Institutions / Mankind and shall be a practical model that can be implemented.

KSCST will not consider the proposals which fall in the following category :

- (1) Computer simulation based and Compilation of Internet downloaded information.
- (2) Repetition of previous SPP Projects.
- (3) Non-scientific projects / Case study projects.

A fee of Rs. 1000/- (Rupees One thousand only) towards processing of the proposal will be charged.

Hence, while applying, the project proposals have to be accompanied with a Demand Draft of Rs. 1000/- favouring "Secretary, KSCST". The Demand Drafts to be obtained from Canara Bank / State Bank of India only payable at Bengaluru.

The Project Proposals should be prepared as per SPP proposal format. Applicants are requested to download the relevant word file of the SPP proposal and fill the same (Hand written proposals will not be accepted).

The hardcopy of the proposal along with Demand Draft have to be submitted in a sealed envelope superscribing "Project Proposal for 42nd series of Student Project Program" addressed to The Secretary, KSCST, IISc., campus, Bengaluru - 560012.

Project proposals will be evaluated by a panel of experts for consideration for sponsorship. The amount sponsored will be sent to the Principal of the concerned College by Cheque. The project guide shall take necessary steps to utilize this amount for the project work and submit the final project report (hardbound copy and softcopy) with utilization certificate to KSCST through Principal of the College.

The Mid-term evaluation of the projects will be done at the identified nodal centres. The students need to demonstrate their project when invited to do so. The selection of projects for Seminar and Exhibition will be based on such evaluation. It is mandatory for the project team to exhibit / demonstrate their project in the nodal centre and in the seminar and exhibition (if selected). The final Seminar and Exhibition will be held during July / August 2019.

For information on Student Projects Programme (SPP) and for downloading the project proposal format and guidelines, please visit our website : www.kscst.org.in/spp.html www.kscst.iisc.ernet.in/spp.html
Facebook : www.facebook.com/kscst.iisc.ernet.in

SPREAD Online: <http://www.kscst.iisc.ernet.in/sppArchive/public/index.php>
Interested students may send the "hardcopy of the project proposal" with due approval of the college to:

The Secretary, Karnataka State Council for Science and Technology,
Indian Institute of Science Campus, Bengaluru - 560012

DATES TO REMEMBER

Last date for receipt of hardcopy of the project proposal as per the SPP format	18th January 2019
Project approval by KSCST	March 2019
Evaluation of Projects at Nodal Centre and selection of projects for Seminar / Exhibition	May - June 2019
2 Page Synopsis and Final Project Report submission along with softcopy in a CD & by Email	20th June 2019
Seminar and Exhibition of selected projects	July / August 2019

Supported By : DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF KARNATAKA AND DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF INDIA

Nodal Centre Evaluation:

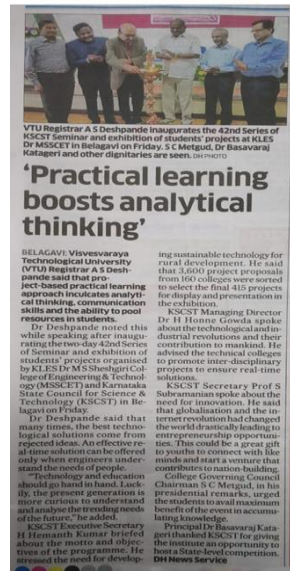
Having selected 700 projects for sponsorship, Council conducted midterm evaluation of the selected projects to track the progress made by students with the project work. During this evaluation, students interacted with the experts for midcourse correction. The Council identified 10 engineering colleges of 10 regions across the state to conduct this evaluation.

Sl. No.	Nodal Centre	No. of projects participated in evaluation
1.	Siddaganga Institute of Technology, Tumakuru	24 projects of 8 branches of 6 engineering colleges
2.	A.T.M.E. College of Engineering, Mysuru	69 projects of 7 branches of 13 engineering colleges
3.	B.M.S. Institute of Technology and Management, Bengaluru	of 104 projects of 16 branches of 22 engineering colleges from Bengaluru north
4.	Malnad College of Engineering, Hassan	13 projects of 4 branches of 4 engineering colleges
5.	Mangalore Institute of Technology and Engineering, Moodabidri	109 projects of 13 branches of 17 engineering colleges
6.	Dayananda Sagar College of Engineering, Bengaluru	153 projects of 13 branches of 31 engineering colleges from Bengaluru south
7.	K.L.E. Institute of Engineering and Technology, Hubballi	69 projects of 9 branches of 13 engineering colleges
8.	K.L.E. Dr. M.S. Sheshagiri College of Engineering and Technology, Belagavi	84 projects of 10 branches of 10 engineering colleges
9.	Bapuji Institute of Engineering and Technology, Davanagere	52 projects of 12 branches of 10 engineering colleges
10.	Guru Nanak Dev Engineering College, Bidar	23 projects of 5 branches of 6 engineering colleges



State level Seminar and Exhibition:

During the nodal centre evaluation, experts selected 415 projects for the State level seminar and exhibition which was held at K.L.E. Dr. M.S. Sheshgiri College of Engineering and Technology Belagavi on 26th and 27th of July 2019. Out of 415 selected projects, 179 projects were selected for seminar and 236 projects for exhibition. Seminar and exhibition is a two day event where all the selected projects are invited to showcase their project ideas. Experts evaluated the projects and selected the best projects for award and also few projects having potential for commercialization / prototype development. This year a total of 50 projects have been awarded as "Best Project of the year" which carries a prize amount and shield along with a certificate. Also, K.L.S. Gogte Institute of Technology, Belagavi was awarded as the "Best Performing College" considering the number of proposals received,



approved for sponsorship and seminar & exhibition, participation of projects and projects awarded. A total of 326 projects were present for this event among which 154 were seminar projects and 172 were exhibition projects.

The DST-Gol sanctioned Rs.1,25,80,000 (one crore twenty-five lakhs eighty thousand only) and KSCST contribution is Rs. 60,00,000.00 (rupees sixty lakhs) for a duration of 3 years.

18.3a) 43rd SERIES OF STUDENT PROJECT PROGRAMME (SPP):

43rd Series of SPP was started in October 2019. Under the 43rd series of SPP, the Council had invited project proposals from final year students of B.E., M.Tech, M.Sc, & M.B.A. across the State.

As per the recommendations of the experts committee, project proposals were invited under two different streams, namely Stream A and Stream B.

Stream A: The submitted projects shall be from one of the broad themes / areas as suggested below:

Assistive devices for differently abled	Rural sanitation
Agricultural equipment's	Waste management
Solar energy harvesting	Lake de-frothing
Smart parking	Genetically modified crops for high yield
Disaster management system	Water
Automobile	Infrastructure
Tissue culture for quality planting material	Application of Nanotechnology
Biodegradable products	Molecular Modelling in Drug Design
Software for molecular docking	Biomarkers of diseases in medicine
Any other innovative projects suitable for implementation in industry and society.	

Stream B: The submitted projects shall be from the following list or related to the field of Bioenergy / Biofuels.

Production of biodiesel, bio-ethanol, biogas from different sources of raw materials	Morphological study on biofuel species
Application of biofuel by-products	Grafting for high yielding varieties using mother tree
Study and prevention of plant diseases in biofuel species plants	Identification of New Feedstock for Biofuel productions
Emission Profiles for different variety and different blends of biodiesel	IT based process control for Biodiesel Production
Study on short gestation crops	Business Model for Biofuel Supply Chain management
Marketing strategies, market trend analysis etc. for biofuels	Survey on Biofuel species in Karnataka using GPS point location

KSCST had circulated SPP posters containing the details of Student Project Programme to all engineering colleges and universities across the state.

A total of 4,525 project proposals from 185 colleges across the state have been received. Further, the project evaluations are being carried out by involving experts from Indian Institute of Science (IISc), National Aerospace Laboratories (NAL) and Central Manufacturing Technology Institute (CMTI). The results of evaluation are announced in KSCST website.